

Title: REGISTER FILE AND
METHOD FOR DESIGNING A
REGISTER FILE

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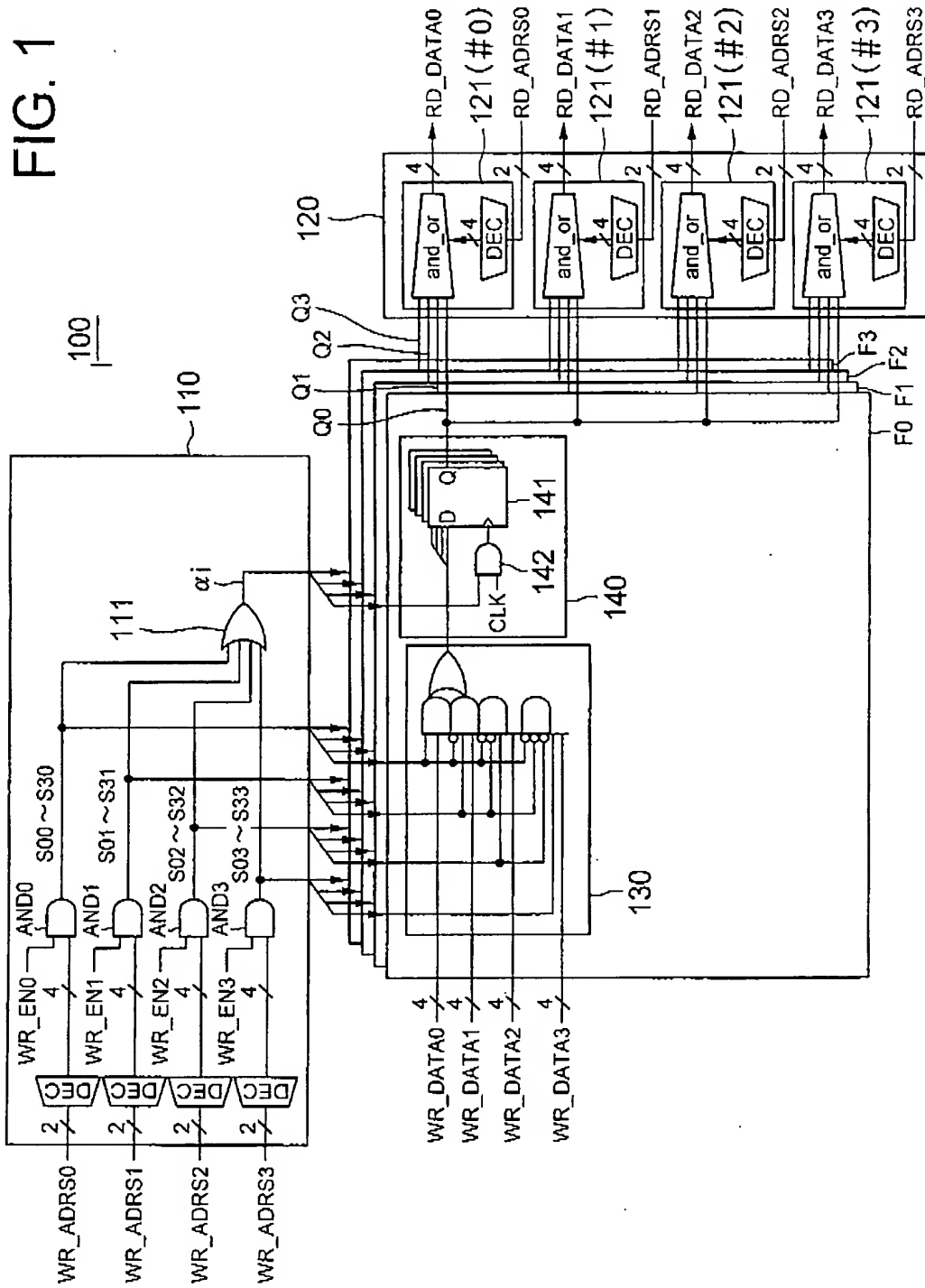


FIG. 2

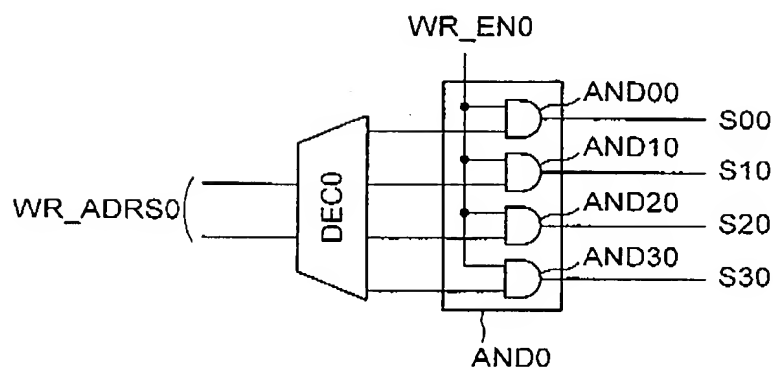


FIG. 3

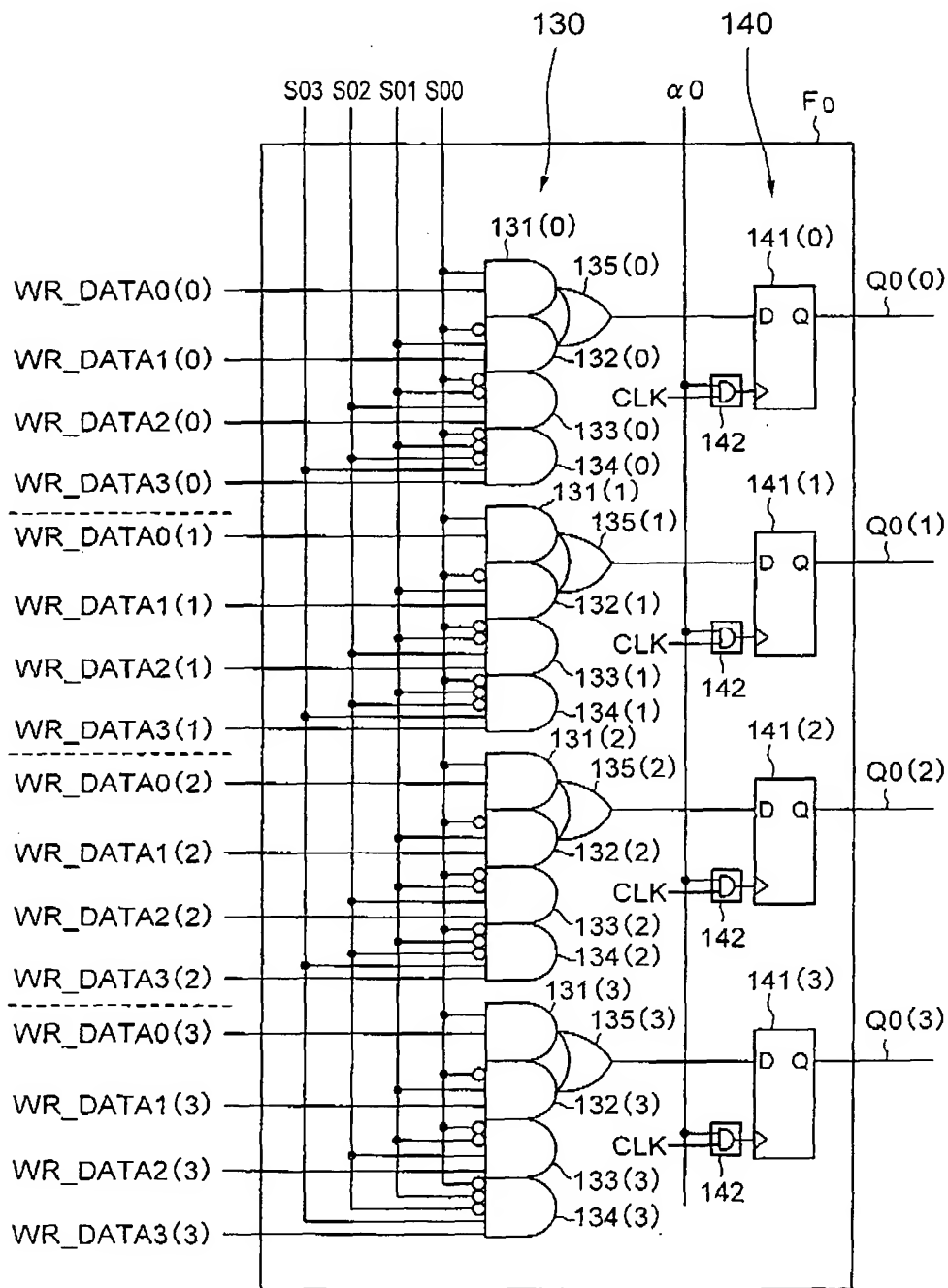


FIG. 4A

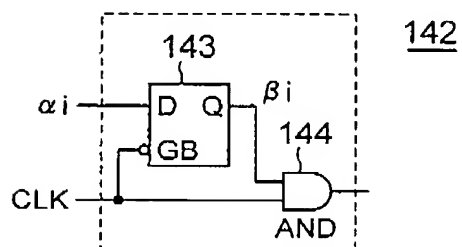


FIG. 4B

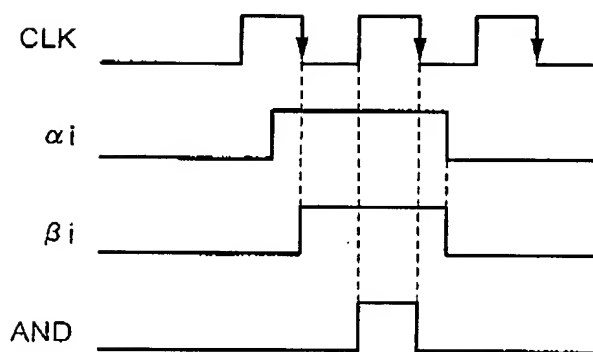


FIG. 5

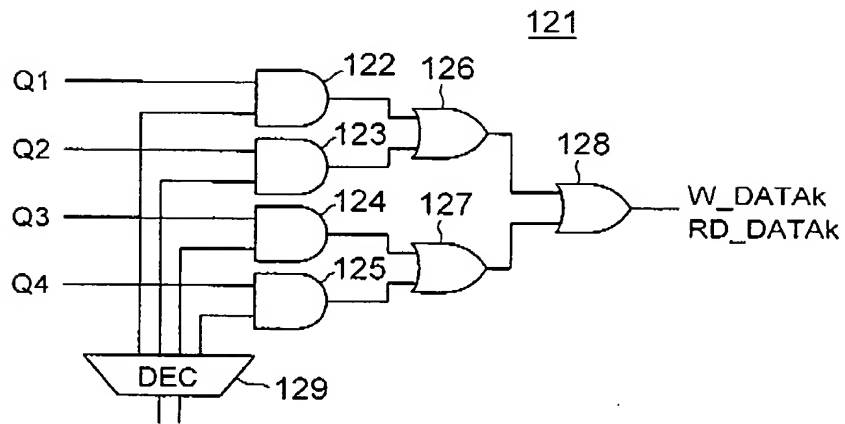


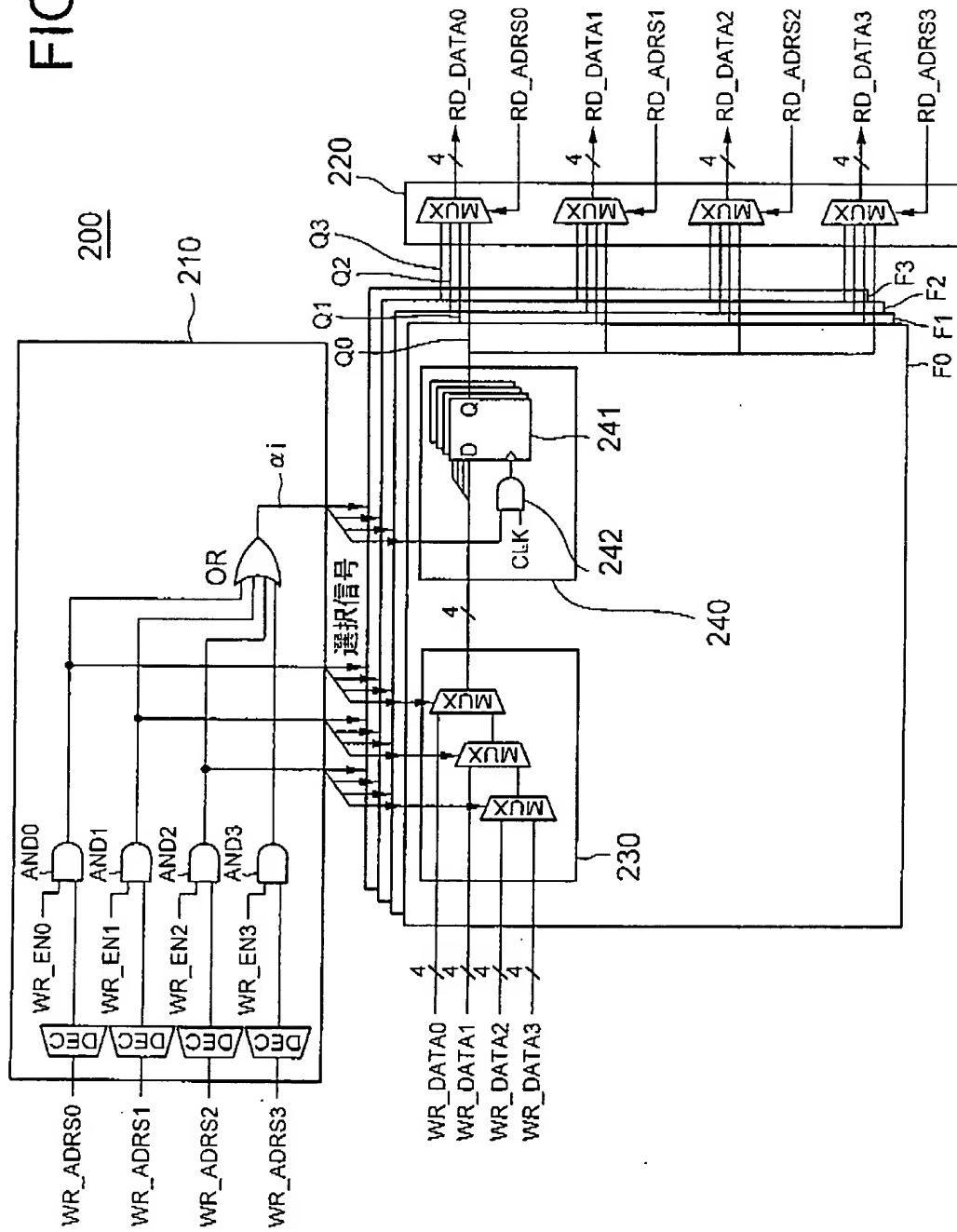
FIG. 6

```

assign Y = Q0 & ~S[1] & ~S[0] |
          Q1 & ~S[1] & S[0] |
          Q2 & S[1] & ~S[0] |
          Q3 & S[1] & S[0];

```

FIG. 7



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FIG. 8

```
case (S)
  2'b00:Y = Q0
  2'b01:Y = Q1
  2'b10:Y = Q2
  2'b11:Y = Q3
endcase
```

FIG. 9

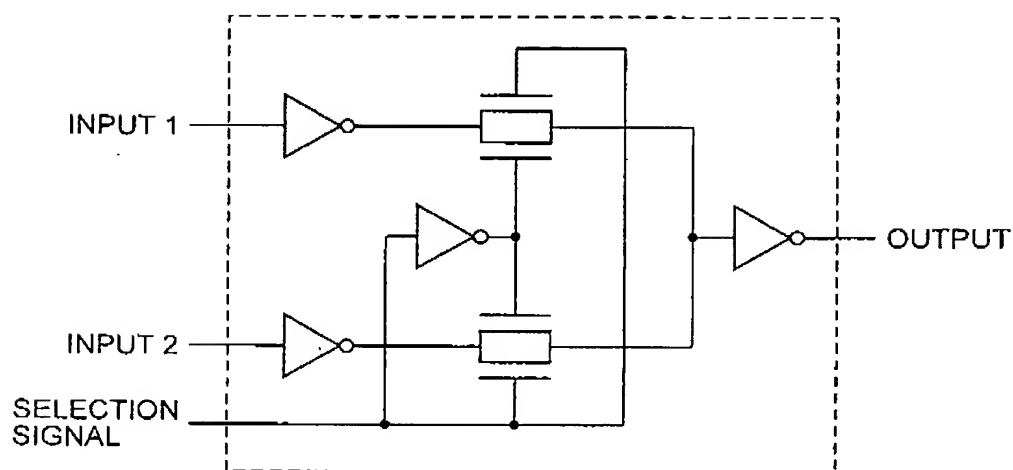
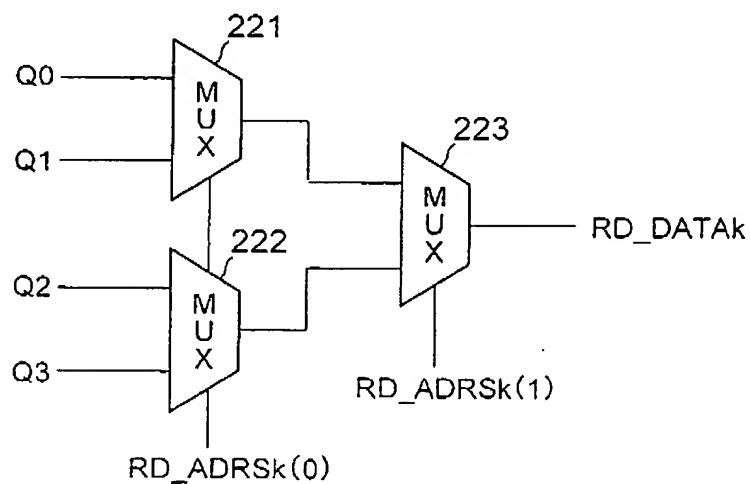


FIG. 10



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FIG. 11

